

disturbance between the relative balance of bone resorption and bone formation.

Claim 14. (Twice Amended)

*OK*  
*E1*  
*Cont*  
The method for treating a patient having an osteoclast related bone disorder according to claim 13, wherein the disorder is selected from the group consisting of rheumatoid arthritis, Paget's disease, rickets, osteoporosis, metabolic disorder, bone fracture, osteomalacia, osteoarthritis, osteogenesis imperfecta, diseases related to hormonal disorders, autoimmune disorders and periodontal diseases.

Please add the following **new claims**:

*E2*  
--Claim 17. The method for treating a patient having an osteoclast related bone disorder according to claim 13, wherein the osteoclast related bone disorder is tumor-related, the tumor-related bone disorder is selected from the group consisting of multiple myeloma, bone metastasis from mammary carcinoma, lung cancer, prostate cancer, thyroid gland carcinoma, renal cancer, colon cancer, cancer of digestive tract, and cancer of esophagus.

--Claim 18. The method for treating a patient having an osteoclast related bone disorder according to claim 13, wherein the disorder is not bone metastasis from mammary cancer.--

--Claim 19. The method for treating a patient having an osteoclast related bone disorder according to claim 13, wherein the osteoclast related bone disorder is tumor-related, the tumor-related bone disorder is selected from the group consisting of multiple myeloma, lung cancer, (prostate cancer, thyroid gland carcinoma, renal cancer, colon cancer, cancer of digestive tract, and cancer of esophagus.--

E2  
Cont  
--Claim 20. A method for treating a patient having an osteoclast related bone disorder comprising administering a medicament to the patient, wherein the medicament comprises an amount of an active ingredient that is effective in reinstating bone volume, and wherein the active ingredient is selected from the group consisting of interferon  $\beta$  and an interferon  $\beta$  inducer.--